

IP Transit Data Sheet

Introduction

atom86 provides cost effective, high speed, redundant, VPLS (VLAN) and Layer3 (IP Transit) services in the Netherlands.

Locations

The atom86 IP Transit and VLAN services are available from the following locations:

- NIKHEF, Amsterdam.
- Schuberg Philis, Schiphol-Rijk.
- Interxion AMS5, Schiphol-Rijk.
- Telecity AMS4, Amsterdam.
- Telecity AMS3, Amsterdam
- Telecity AMS2, Amsterdam
- Interxion AMS3, Amsterdam
- Interxion AMS1, Amsterdam
- Equinix AM1/2, Amsterdam
- euNetworks, Amsterdam
- GlobalSwitch, Amsterdam
- TDCG, Amsterdam

Interconnections

All interconnections between the customer equipment and the atom86 network are Ethernet based:

- FastE
- GigE-Copper
- GigE-Fiber: SX or LX
- 10GigE-LR

Dual BGP or VRRP are standard supported at no additional charge.

IPv4 and IPv6 are delivered on the same port at no additional charge.

Hardware

All routing is performed on our Juniper MX960 3D core routers which are located at Schuberg Philis and Nikhef. All Cisco catalyst switches on locations mentioned above are redundantly connected to the core routers, creating a star topology.

RIPE LIR

Schuberg Philis is an official RIPE LIR. Below are the details regarding the atom86 network:

- AS8455
- IPv4: 31.22.80.0/21
- IPv4: 95.142.96.0/20
- IPv4: 178.237.32.0/20
- IPv6: 2a00:1188::/32

If and when required we can arrange Provider Independent IPv4 and IPv6 address space with RIPE as well as an Autonomous System Number. All according to RIPE policy.

Maintenance window

The standard maintenance window for Scheduled Maintenance for the atom86 network is every working day between 00:00-02:00hrs Dutch local time. The length of the maintenance window may vary depending on the activities to be performed during the maintenance window.

The maintenance window will be announced 5 days in advance stating start, end, activities to be performed and the possible impact on customer connections.

Emergency Maintenance will be announced at least 15minutes in advance, if possible, or directly afterwards explaining the emergency.

BGP Communities

The atom86 networks supports BGP Communities allowing customer to have influence on the routing of their prefixes over the atom86 network. The following BGP Communities are in place:

• Blackhole	8455:5990
• Transit Backup	8455:5060
• Transit Not Preferred	8455:5180
• Transit Preferred	8455:5220
• Do Not Announce to Level(3)	8455:5500
• Prepend 1x to Level(3)	8455:5501
• Prepend 2x to Level(3)	8455:5502
• Prepend 3x to Level(3)	8455:5503
• Do Not Announce to TiNet	8455:5505
• Prepend 1x to TiNet	8455:5506
• Prepend 2x to TiNet	8455:5507
• Prepend 3x to TiNet	8455:5508
• Do Not Announce to OpenPeering	8455:5510
• Prepend 1x to OpenPeering	8455:5511
• Prepend 2x to OpenPeering	8455:5512
• Prepend 3x to OpenPeering	8455:5513
• Do Not Announce to Telia	8455:5515
• Prepend 1x to Telia	8455:5516
• Prepend 2x to Telia	8455:5517
• Prepend 3x to Telia	8455:5518
• Do Not Announce to Init7	8455:5519
• Prepend 1x to Init7	8455:5520
• Prepend 2x to Init7	8455:5521
• Prepend 3x to Init7	8455:5522
• Do Not Announce to Peers	8455:5000
• Prepend 1x to Peers	8455:5001
• Prepend 2x to Peers	8455:5002
• Prepend 3x to Peers	8455:5003

Providers IPv6

The atom86 network runs dual stack and is therefore able to also provide IPv6 transit. The current providers of upstream IPv6 connectivity to atom86 are:

• INIT7	AS13030
• Level(3)	AS3356
• Telia	AS1299
• TiNet	AS3257

Providers IPv4

The current providers of upstream IPv4 connectivity are:

• Level(3)	AS3356
• NL-ix	AS20562
• Telia	AS1299
• TiNet	AS3257